

East Asiatic Lichens (III)

By M. M. SATO

佐藤正巳：東亞ノ地衣類(其三)

8) **Gymnoderma coccocarpum** NYLANDER, Synops. Lich. II, p. 26, Tab. IX, fig. 34 (1863). ZAHLBRUCKNER, Cat. Lich. IV, p. 428 (1926) et VIII, p. 428 (1932); in Bot. Mag. Tokyo XLI, p. 336 (1927). ASAHINA in Bot. Mag. Tokyo XLI, p. 372, Pl. XI, fig. 1 (1927).

Thallus foliaceus, compressus, tenuis, ad 0.2~0.3 mm crassus, 5~8 mm longus et 2~4 mm latus, ambitu lobato-divisus; superne livido-virescens, so-

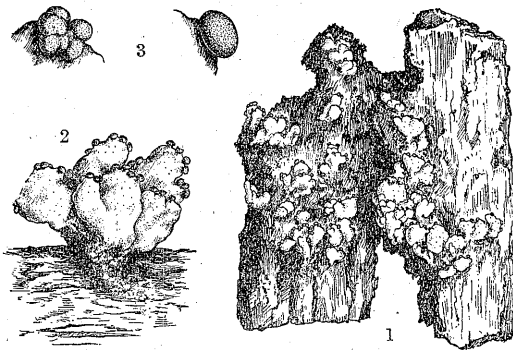


Fig. 6. *Gymnoderma coccocarpum* NYL. 1. Plant on bark ($\times 1$). 2. Five individuals ($\times 3$). 3. Two apothecia ($\times 10$).

redii et isidiis omnino destitutus, lævis, opacus, KOH dilute flavescens, superne tantum corticatus; subtus ecorticatus, nudus, rhizinis destitutus, albidus; cortex superior 60~80 μ crassus, subhyalinus, non pseudo-parenchymaticus; gonidia protococcoidea, viridescens, subglobosa, ca. 10 μ lata, sub cortice superiore strato

continuato 15~20 μ crasso formantia; medulla alba, ex hyphis ca. 3 μ crassis laxè intricatis formata, KOH—, CaCl—, PD—, J— . Podetia sat brevìa, marginalia, simplicia.

Apothecia terminalia, solitaria vel agglomerato-aggregata, lenticulari-globosa vel subglobosa, parva, 0.5~0.8 mm lata, rufo-fuscescentia, biatorina; hymenium 50~60 μ crassum, superiore fusco-flavescens et inferiore hyalinum, J+ærulescens; hypothecium hyalinum; paraphyses filiformes, parce ramosæ; asci oblongo-clavati, 8-spore: sporæ decolores, 1-loculares, oblongæ vel subfusiformes, 9~12 μ longæ et 3 μ latæ, membrana tenui cinetæ.

Hab. Ad truncos *Cryptomeria japonica* D. DON. Honsyû : Mt. Kôyasan (leg. K. NUMAZIRI ; Apr. 8, 1925). Sikoku : Mt. Isiduti (leg. F. FUJIKAWA ; Aug. 26, 1933).

Distr. Japonia (Honsyû, Sikoku) et India (Himalaya).

9) ***Pilophoron nigricaula* SATÔ, sp. nov. (Fig. 7)**

Pilophoron cereolus (non TH. FR.) SATÔ in Journ. Japan. Bot. IX, p. 214, fig. 16 (1933) ; in Bull. Saito Ho-on Kai Museum IV, p. 10, fig. 5 (1934) ; in ASAHINA, Nippon-Inkwasyokubutu-Dukan, p. 681, Pl. 328, fig. 6 (1939).

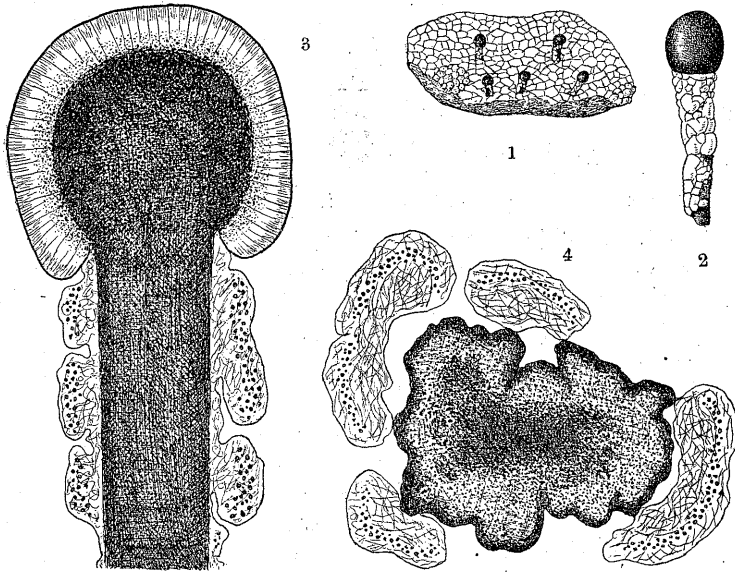


Fig. 7. まるみかむりごけ *Pilophoron nigricaula* SATÔ. 1. Plant on rock ($\times 1$). 2. One apothecium and podetium ($\times 6$). 3. Longitudinal section of apothecium and podetium ($\times 25$). 4. Transverse section of podetium ($\times 30$).

Podetiis intus sat compactis subhondroideis nigro-fuscis ab omnibus speciebus cognitarum generis *Pilophoronis* distat.

Thallus epilithicus, crustaceus, substrato arete adhærens, uniformis, areolato-rimosus, granulatus, superne cinerascens, in ambitu linea obscuriore non cinctus, sorediis et isidiis omnino destitutus sed cephalodiis verruculiformibus

thallo fere concoloribus præditus, KOH+flavescens, CaCl—, PD—; intus albidus, ecorticatus, gonidiis protococcoideis subglobosis ca. 10 μ latis præditus. Podetia dispersa vel sat aggregata, cylindrica, simplicia, 2~4 mm alta et ad 1 mm crassa, superne thallo concolora, granulata; intus compacta, ecorticata, caule carbonaceo nigro-fuscescenti sat solido prædita.

Apothecia terminalia, solitaria, globosa, 0.8~1.2 mm in diametro, lecideina; discus nigro-fuscescens, epruinosis, nitidulus; epithecium fuscescens, 7~10 μ crassum; hymenium decolor, ca. 100 μ crassum, J+cærulescens; hypothecium dilute fuscescens, ca. 100 μ crassum, inferne excipulo carbonaceo nigro-fuscescenti confluent; paraphyses filiformes, simplices, arcte strictæ, eseptatæ, ad apicem leviter latiores; asci cylindrici, 8-spори; sporæ decolores, simplices, fusiformes, 15~20 μ longæ et 6~8 μ latæ, membrana tenui cinctæ. Pycnospores et pyrenidia ignota.

Nom. Jap. *Marumi-kamuri-goke*.

Hab. Ad saxa non calcarea. *Honsyû*: Mt. Tyôkai (leg. A. YAMAMOTO; Aug. 12, 1927); Mt. Gassan (leg. M.M. SATÔ; Aug. 25, 1932—Typus in Herb. Univ. Imp. Tokyo.), Mt. Yatu (leg. Y. ASAHINA in Herb. ASAHINA), Mt. Tateyama (leg. Y. ASAHINA; Jul. 30, 1929), Mt. Sirouma (leg. Y. ASAHINA; Aug. 22, 1936), Mt. Kiso-Koma (leg. Y. ASAHINA in Herb. ASAHINA).

Distr. Japonia (*Honsyû*).

Clavis specierum Japonicarum generis Pilophoronis

- A. Podetia intus caule carbonaceo sat solido prædita (sect. *Nigricaulia*)
 - a. Podetia 2~4 mm alta. Apothecia globosa.....1) *P. nigricaulis* SATÔ
- B. Podetia intus albida, caule carbonaceo non prædita (sect. *Eupilophoron*)
 - a. Podetia intus excavata, 8~25 mm lata. Apothecia conica.
 -2) *P. aciculare* (ACH.) NYL.
 - b. Podetia intus solida, ad 5 mm alta. Apothecia capitato-elongata.
 -3) *P. japonicum* ZAHLBR.

From the structure of podetia, the present writer has discovered that the genus *Pilophoron* should be divided into two distinct groups; thus he proposes to establish sect. *Nigricaulia* SATÔ with *Pilophoron nigricaulis* SATÔ as its representative, and to include all the species hitherto known as belonging to this genus under sect. *Eupilophoron* SATÔ.

Following is the descriptions of above mentioned two new sections:

- 1) *Pilophoron* sect. **Nigricaulia** SATÔ, sect. nov.

Podetia intus caule carbonaceo nigro-fuscescenti sat solido prædita.

Typus: *P. nigricaulis* SATÔ.

- 2) *Pilophoron* sect. **Eupilophoron** SATÔ, sect. nov.

Podetia intus albida, caule carbonaceo non prædita.

Typus: *P. aciculare* NYL.

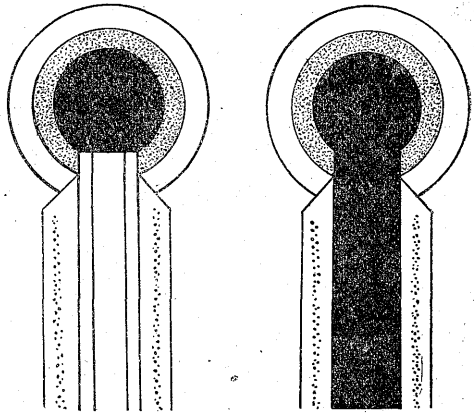


Fig. 8. Scheme of the transverse section of podetium and apothecium.

Pilophoron sect. *Eupilophoron* SATÔ (left) and sect. *Nigricaulia* SATÔ (right).

摘要

8) *Gymnoderma coccocarpum* NYL. 四國ニモ産ス (第 6 圖)

前世紀ノ中頃ニヒマラヤ山脈シッキム地方デ採集サレテ以來、何處カラモ知ラレナカッター屬一種ノ珍品 *Gymnoderma coccocarpum* NYL. ガ大正 15 年 2 月ニ紀州高野山デ沼尻好氏ニヨツテ採集サレ、ソノ標品ガ朝比奈博士ノ手ヲ經テ ZAHLBRUCKNER ニ同定サレテ學界ヲ驚カセタ。コノ珍品ガ更ニ四國ノ石槌山ニモ産スルコトガ藤川福二郎氏ノ 1933 年 8 月 26 日採集ノ標品ニヨツテ明ニナツタ。日本産ノモノハ何レモすぎノ樹皮上ニ生ジタモノデアルガ、原標本モ半バ腐朽シタ樹皮上ニ生ジタモノノ由デアル。

本種ヲ實際ニ研究スル機會ヲ惠マレタ地衣學者ハ極メテ少イモノト見エ、本種ニ關スル研究報告ハ非常ニ貧弱デ十分ナ記相文モナイ有様ナノデ、朝比奈博士所藏ノ日本産ノ標本ヲ全部拜借シテ詳細ニ研究シ、記載ト寫生圖トヲ此處ニ發表シタ。

毎度ノコトナガラ、貴重ナ標本ヲ快ク提供セラレ、種々有益ナ示唆ヲ與ヘテ下サツタ朝比奈博士ニ改メテ御禮ヲ申上ゲル。

9) 新種まるみかむりごけ (第 7 圖)

我が國ニ産スルまるみかむりごけノ學名トシテハ *Pilophoron cereolus* TH. FR. ヲアテテキタガ、外國産ノモノトハピッタリ合ハナイ様ナ氣ガシタノデ精シク調査シタトコロ非常ニ面白い結果ガ出テキタ。ソレハまるみかむりごけノ子器柄ハ中央ニ炭化シタ暗褐色ヲ呈スル角質ノ強固ナ中軸ヲ有シ、ソノ外側ヲ地衣體ガ覆ツテ出來テキルガ、同屬ノ

他ノ種類ノ子器柄ハスベテ白色ノ普通ノ菌絲ヨリナリ、中軸ニ當ル部分ノ外部ハ密ニ錯綜スル菌絲ヨリナリ軟骨狀ヲ呈シ、内部ハ弛ク錯綜スル菌糸ヨリナリ蜘蛛巢狀カ又ハ屢々空洞狀ニサヘナル様ナ構造ヲ有シ、明ニ二ツノ型ニ區別サレルコトデアル。コノ特異ナ構造ヲ示ス子器柄ヲ有スルまるみかむりごけヲ新種ト認メ、*Pilophoron nigricaulis* SATÔ ト命名シ、コレヲ代表者トシテまるみかむりごけ節 (sect. *Nigricaulia* SATÔ) ヲ建て、從來かむりごけ屬ノ地衣トシテ知ラレタスベテノ種類ハかむりごけ節 (sect. *Eupilophoron* SATÔ) ニ含メルコトニシタ。

日本産かむりごけ屬地衣目錄

日本ニ産スルかむりごけ屬地衣ハ僅ニ 3 種類デ、次ノ檢索表デ示サレル。

- A. 子器柄ノ中軸ハ暗褐色、骨質ニシテ中實 (まるみかむりごけ節)
- a. 子器柄ハ高サ 2~4 mm。子器ハ殆ド球形。……………1) まるみかむりごけ
- B. 子器柄ノ中軸ハ白色、内部ハ中空又ハ蛛蜘蛛巢狀 (かむりごけ節)
- a. 子器柄ハ中空、高サ 8~25 mm。子器ハ圓錐形。……………2) おほかむりごけ
- b. 子器柄ハ中實、高サ 5 mm 内外。子器ハ長頭狀。……………3) かむりごけ

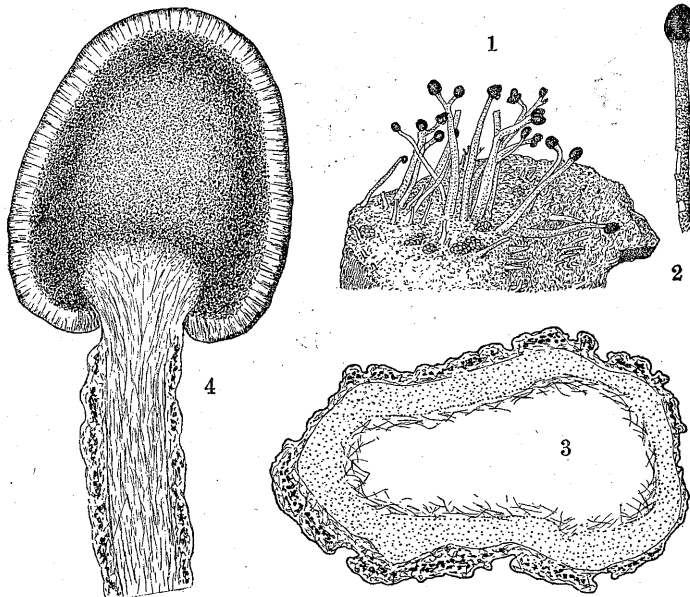


Fig. 9. おほかむりごけ *Pilophoron aciculare* (ACH.) NYL.

1. Plant on rock ($\times 1$). 2. One apothecium and podetium ($\times 2$). 3. Transverse section of podetium ($\times 25$). 4. Longitudinal section of apothecium and podetium ($\times 25$).

1) まるみかむりごけ *Pilophoron nigricaula* SATÔ in Journ. Japan. Bot. XVI, p. 173, fig. 7 (1940).

Pilophoron cereolus (non TH. FR.) SATÔ in Journ. Japan. Bot. IX, p. 214, fig. 16 (1933); in Bull. Saito Ho-on Kai Museum IV, p. 10, fig. 5 (1934); in ASAHINA, Nippon-Inkwasyokubutu-Dukan, p. 681, Pl. 328, fig. 6 (1939).

〔産地〕 山地ノ岩石上。本州（鳥海山・月山・八ヶ岳・立山・白馬山・木曾駒ヶ岳）。

〔分布〕 日本特産。

2) おほみかむりごけ *Pilophoron aciculare* (ACH.) NYLANDER in Mémior. Soc. Sci. Nat. Cherbourg V, p. 96 (1857). MÜLLER ARG. in Nuqv. Giorn. Bot. Ital. XXIV, p. 190 (1892). ZAHLBRUCKNER, Cat. Lich. IV, p. 431 (1926); in Bot. Mag. Tokyo XLI, p. 337 (1927). SATÔ in Journ. Japan. Bot. IX, p. 213, fig. 14-15 (1933); in Bull. Biogeogr. Soc. Japan VI, p. 109 (1936); in ASAHINA, Nippon-Inkwasyokubutu-Dukan, p. 681, Pl. 328, fig. 7-10 (1939).

〔産地〕 山地ノ岩石上。樺太（鈴谷岳）、本州（男體山・甲武信岳・八ヶ岳・戸隠山・蓼科山・富士山・南アルプス鋸岳・木曾駒ヶ岳）。

〔分布〕 日本、支那（雲南）、濠洲、アフリカ、北米。

3) みむりごけ *Pilophoron japonicum* ZAHLBRUCKNER, Cat. Lich. IV, p. 433 (1926); in Bot. Mag. Tokyo XLI, p. 337 (1927). SATÔ in Journ. Japan. Bot. IX, p. 211, fig. 13 (1933); in Bull. Saito Ho-on Kai Museum IV, p. 10 (1934); in Biogeographica I, p. 123, fig. 9 (1937); in ASAHINA, Nippon-Inkwasyokubutu-Dukan, p. 681, Pl. 328, fig. 1-5 (1939).

Pilophorus clavatus (non *Pilophoron clavatum* TH. FR.) NYLANDER, Lich. Japon., p. 17 (1890). MÜLLER ARG. in Nuov. Giorn. Bot. Ital. XXIV, p. 190 (1892).

Pilophorus Hallii WAINIO in Bot. Mag. Tokyo XXXV, p. 59 (1921), quoad Plant. ex Japonia. YASUDA, Flecht. Japan., p. 32, Pl. VI, fig. 5 (1925).

〔産地〕 山地ノ岩石上。北海道（大雪山・トムラウシ山）、本州（八甲田山・鳥海山・月山・四萬・日光湯本・白根山・八ヶ岳・三峰山・箱根・富士山・天城山・立山・木曾駒ヶ岳）、九州（霧島山・大隅栗野岳・屋久島）。

〔分布〕 日本特産。